

Joint Artificial Intelligence Center Needs Statement

Response Date 26 July 2019

The Department of Defense's (DoD Rapid Reaction Technology Office (RRTO) will conduct a Solutions Meeting on behalf of the Joint Artificial Intelligence Center (JAIC) in late Summer / early Fall 2019 in Northern, VA. The Meeting will provide selected innovative companies with an opportunity to make short technical presentations to government representatives about their technologies and products. There is a potential for companies to be selected for pilot projects or experimentation if their technology appears to match the DoD's needs.

The Cyberspace National Mission Initiative (NMI) of the Joint Artificial Intelligence Center is looking for technologies in the following areas that utilize or enable the application of Artificial Intelligence / Machine Learning:

Autonomous Cyber Defense

- Network & Application Level Event Detection
 - Anomaly detection
 - Non-signature-based detection
 - Zero-Day detection & mitigation
 - Continuous monitoring from bus to user level
- Cueing & orchestration of defenses and remediation
- Vulnerability ID & autonomous patching
- Adaptive defenses and self-securing systems

User Activity Monitoring & Attribution

- User/System baselining, profiling and analysis
- Credential misuse analysis and detection
- Data loss detection and prevention
- Social factors integration

Social Media & Dark Web Analysis

- Sentiment analysis
- Multiple datasets, sources/inputs
- Retrospective and prospective analysis
- Social baselines discovery, pattern measurement and anomaly detection
- Comprehensive views over multiple sources/platforms
- Adversary persona identification
- Message propagation assessment and prediction

Network Mapping

- Device identification & role classification
- Change detection
- Intelligent scanning
- Topology inference from partial data

Autonomous Dev Ops

- Rapid development
- Self-generating code

- Code testing
- Code obfuscation
- AI assisted development environment

Data Engineering

- Data aggregation and sharing
- Autonomous data organization
- Extract relevant content and apply context
- Filter and process information to achieve understanding
- Gather, sift, filter, clean and/or fuse data automatically
- Generate synthetic data for algorithm training purposes
- Data labeling at scale

Companies interested in participating in the Solutions Meeting should submit an application to RRTO Innovation via e-mail to osd.pentagon.ousd-atl.mbx.rrto-innovation@mail.mil.

The following information is required in the application (Note: Only 1 application is permitted per company NOT 1 application per topic area). **All applications should be contained within the body of the email. No attachments are allowed.**

1. Email subject line “JAIC Solutions Meeting Application”
2. Company name
3. Website address
4. POC, email, phone number and an alternate POC if desired
5. A succinct description (less than 100 words in length) of the one technology that the company plans to discuss if they are selected to present at the Solutions Meeting. This description should be about the technology/capability and should not include a description of the company.
6. Select the one technology area (the bolded technology areas above) that your technology BEST fits. Do not list multiple technology areas.

All applications must be received on or before 5:00 PM EST, 26 July 2019. Submission of an application does not guarantee an invitation to the Solutions Meeting.

Selected companies are responsible for their travel and all other expenses associated with participation in the Joint Artificial Intelligence Solutions Meeting.